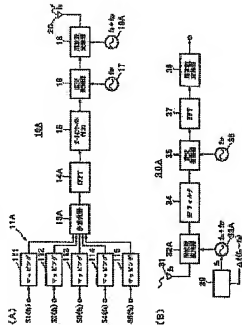


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PROBLEM TO BE SOLVED: To decode only the information sequence of a desired channel from the information sequences of many partial receiving channels, to which orthogonal frequency division multiplex(OFDM) modulation is applied, by transmitting the information sequences of many partial channels to a prescribed frequency band and a subcarrier modulation, and a subcarrier modulation. In an OFDM transmitter 10, a mapping circuit 11 independently maps plural information sequences having a band width BFW and different central frequencies, a multiplexer 13A multiplexes the frequencies of plural mapping signals and a frequency converter 18 converts the frequency of an orthogonal modulation signal with a central frequency f3 as a reference among the central frequencies of plural mapping signals. In an OFDM receiver 30A, a channel selector 39 sets the frequency of an information sequence to be set out of received channels and a frequency converter 32A converts the frequency of a signal having a frequency, for which an intermediate frequency f1 is added to a frequency f1 selected by the channel selector 39, and the received signal. A frequency converter 38 performs frequency correction circuitry to the frequency of a signal having the frequency f3 of a center among the central frequencies of plural information sequences and the frequency f1 selected by the channel selector 39.



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